BY ORDER OF THE COMMANDER UNITED STATES AIR FORCES IN EUROPE UNITED STATES AIR FORCES IN EUROPE INSTRUCTION 32-7068 16 MARCH 2004

Civil Engineering





COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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OPR: HQ USAFE/A7CVP Certified by: HQ USAFE/A7CV

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Pages: 22 Distribution: F

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This instruction implements Air Force Policy Directive 32-70, *Environmental Quality*, and Annex L, *Environmental Considerations*, to the European Command (EUCOM) Operations Plan. This instruction defines the responsibilities and procedures for performing an Environmental Baseline Survey (EBS) in conjunction with pre- and post-deployment operations. This instruction applies to all United States Air Force in Europe (USAFE) units, personnel and resources involved in overseas, operational and training deployments over 30 days. This instruction applies to the extent it does not either conflict with requirements imposed by international agreements or cause degradation to mission capability. The EBS does not directly address the health hazards that may result from environmental conditions. Bioenvironmental engineering personnel will address health hazard risk assessment as a part of their environmental health site assessment (EHSA). The EHSA may be referenced in the EBS as appropriate. Coordination with host nation personnel may be required. Send recommendations for changes or improvements to this instruction on AF Form 847, **Recommendation for Change of Publication**, to the Environmental Division (HQ USAFE/A7CV), Unit 3050, Box 10, APO AE 09094-5010.

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1. General Information. The purpose for conducting an Environmental Baseline Survey (EBS) for deployed operations is to (1) identify any potential health hazards and environmental concerns with the property; (2) document the environmental condition of the property before and after deployment; and (3) record environmental damages (if any) as a result of the deployment. This instruction outlines the procedures for identifying and recording sensitive and or protected natural and cultural resources (protected plants, animals, archeological or historical sites), and contaminated sites either existing before deployment or occurring during deployment operations. This information will be used to protect sensitive environmental areas from deployment operations. It will also alert deployed personnel to contaminated sites and facilitate beddown planning.

2. Objectives:

- 2.1. Document the environmental condition of the property with field notes, facility checklists, maps and photographs.
- 2.2. Identify pre-existing hazardous substances, contaminated sites, and any natural or cultural resources.
- 2.3. Identify post-deployment environmental conditions.

3. Responsibilities:

3.1. HQ USAFE/A7CV:

- 3.1.1. Provides execution guidance and oversees implementation of this instruction for the USAFE area of responsibility (AOR).
- 3.1.2. Reviews pre- and post-deployment EBS when there is no supporting main operating base (MOB), Numbered AF or Environmental Planning Function (EPF) (some deployment locations are not supported by MOB or EPF).
- 3.1.3. Maintains copies of pre- and post-deployment EBSs for those deployment locations not supported by Numbered AF, MOB or EPF.

3.2. Numbered AF, MOB or EPF:

- 3.2.1. Prepares and completes the AF Form 813, Request for Environmental Impact Analysis.
- 3.2.2. Reviews pre- and post-deployment EBS for those deployed locations supported within their AOR.
- 3.2.3. Maintains copies of pre- and post-deployment EBSs for those deployed locations supported within their AOR.
- 3.3. **Deployed Unit.** The deployment commander shall designate an environmental coordinator to complete the EBS and provide the name, rank and contact information of the environmental coordinator to HQ USAFE/A7CV, Numbered AF, MOB, and EPF.

3.4. Deployed Unit Environmental Coordinator:

3.4.1. Prior to deployment, the environmental coordinator should review available site maps, building plans and environmental guidance concerning the deployed location for potential environmental concerns and sensitive natural and cultural resources.

- 3.4.2. Qualitative data collected during the pre-deployment survey should be used to establish a soil, air and water sampling strategy. The strategy should be coordinated with the Bioenvironmental Engineer (BEE) to ensure sampling is not duplicated for health and environmental purposes; sampling may very well serve both purposes. The BEE will collect samples in support of the EBS. Quantitative data collected as part of this sampling strategy will be essential for defining potential environmental concerns prior to deployment of forces. Data from this preliminary survey should be provided to the BEE, who will perform a health risk assessment. These proactive steps will ensure necessary environmental controls are in place prior to deployment of personnel. The deployed location site map should be overlaid with a grid that matches the Civil Engineer Readiness Division (CEX) Chemical Biological Radiological Nuclear Explosive (CBRNE)/force protection zones. In the event of a CBRNE event, the data obtained from Vapor Liquid Solid (VLS) Track and subsequent quantification efforts could be tied clearly into the overall post-deployment EBS report.
- 3.4.3. Completes a deployment EBS report (attachment 1 through attachment 4) not later than (NLT) 15 days after the initial beddown and a post-deployment EBS no earlier than 30 days prior to redeployment. Submits an electronic (preferable) or hard copy of both the pre-and post-deployment EBS to the associated MOB EPF, Numbered AF and HQ USAFE/A7CV, whichever is appropriate.
- 3.4.4. A post-deployment soil, air and water sampling strategy should be developed as part of the post-deployment EBS. Data obtained from this sampling strategy should be used to quantify the environmental impact at the deployed location of our forces.
- **4. EBS Report.** The procedure for conducting the EBS has been simplified so that even an individual with little environmental experience can complete the documentation. The report identifies and evaluates the level of contamination at deployed locations. The EBS report template is at Attachment 2. The report requires items listed in the table of contents (Figure A2.2) to be completed along with photographs or maps that give a clear picture of the environmental condition of the property and a list of contacts while conducting the EBS.
 - 4.1. **EBS Data.** The EBS data collection items are used to assess and determine the impact that operations have on the environment during operational and training deployments. They serve as snapshots of the environmental condition of the subject property before and after deployment. Emphasis is placed on visual and physical site inspections, collection of local environmental records (if available) and interviews of current or former employees involved in operations conducted on the site (such as host airport authorities, landowners and other personnel familiar with the site). It is important to note both the condition of and the presence of any odors, stains, corrosion, stressed vegetation, and dead or diseased plants or wildlife at locations where hazardous substance storage, release and disposal has or is likely to have occurred. Any containers appearing to be abandoned or leaking must be noted. Photographs and Global Positioning System (GPS) coordinates of all areas of concern are encouraged for documentation of existing conditions. The EBS report must clearly identify if a condition existed prior to US presence or if the condition is a result of US forces at the location.
 - 4.1.1. Environmental Conditions. This is the main part of the EBS report. A list of environmental areas of concern is provided in items A3.5.1 through A3.5.13. The purpose of this step is for the environmental coordinator to become familiar with the site by conducting a walk-through and recording any observations. For each item, the template provides (in the brackets) some basic

questions to ask or the type of data to include. This guidance is provided to help with the data collection and should not be considered all-inclusive. Emphasis is placed on the following:

- 4.1.1.1 Hazardous Materials and Wastes. Materials such as solvents, cleaners, paints, degreasers, pesticides and other chemical products stored in drums, cans, buckets, or other containers, are to be evaluated.
- 4.1.1.2. Petroleum Substances. Materials and wastes such as fuels, oils, lubricants, hydraulic fluids, mineral spirits and other solvents that are petroleum based.
- 4.1.1.3. Natural and Cultural Resources. Threatened and endangered species (T&ES), wetlands, cultural, historical, archeological and natural conditions of the subject property are to be addressed. For the purpose of this instruction, the environmental coordinator is to document, to the best of his or her abilities, all visible signs of wildlife and any areas of standing or running water. Unusual vegetation should also be noted. Contact HQ USAFE/A7CVP to request reference materials and additional guidance.
- 4.1.2. Facility Assessment Checklist (attachment 4). The environmental coordinator shall conduct an inspection of any facilities used by the deploying forces. The purpose of the inspection is to determine or discover whether any hazardous substance that represents a concern to human health or the environment in or around the facility has been released in the past or could potentially be released in the future. Inspect the interior and exterior of the subject property including buildings, structures, equipment, pipelines or other improvements. Document any concerns as referenced in the checklist and complete a Facility Assessment Checklist (Attachment 4) for each facility inspected. Coordination with Intel may be required to gather information on adjacent facilities not used by the deploying forces to assess the full spectrum of environmental conditions.
- 4.1.3. Summary of Environmental Conditions (Attachment 5). The environmental coordinator must analyze the environmental condition of the subject property, in order to determine the degree of contamination present. The analysis is done by applying the Environmental Condition Codes to the information gathered in Attachment 3, item A3.5 and Attachment 4. The codes can be found in 4.1.3.1 below and in the form in Attachment 5 (Summary of Environmental Conditions). The analysis is documented on the Summary of Environmental Conditions form. Areas of concern should become clear after reviewing the form. The environmental coordinator should also document any required follow-up actions to fully define the environmental condition of the property.
 - 4.1.3.1. Environmental Condition Codes:

Table 1. Environmental Condition Codes. Use Table 1 when completing Attachment 5.

Category 1	No environmental contamination/degradation noted. No storage, release or disposal of hazardous substances or petroleum-based products has occurred.
Category 2	Hazardous substances or petroleum-based products are present or have been present in the past.
Category 3	Contamination and or degradation possible. Release, disposal and, or migration of hazardous substances or petroleum-based products have occurred. Remedial actions might be required. Coordinate any contamination with the Bio-Environmental Engineer (BEE).
Category 4	Further evaluation required. Visual examination and record review not sufficient to allow condition code determination. Note additional requirements and contact the MOB, Numbered AF, HQ USAFE/A7CV or the BEE.
Category 5	Pre-existing condition.

4.1.3.2. Survey Certification (Attachment 6). The EBS deployment report must contain a certification regarding the accuracy of the EBS. The deployed commander and the environmental coordinator should sign the certification. The deploying unit should keep the EBS documentation for 5 years. HQ USAFE/A7CVP should keep the documentation for 10 years.

JON D. VERLINDE, Colonel, USAF The USAFE Civil Engineer

GLOSSARY OF REFERENCES AND SUPPORT INFORMATION

References

Air Force Handbook 10-222, Volume 4, Environmental Guide for Contingency Operations

CJCSM 3122.03A, Joint Operation Planning and Execution System, Volume II (Planning Formats and Guidance)

DoD 4715.5G, Overseas Environmental Baseline Guidance Document (OEBGD)

DoD Directive 6050.7, Environmental Effects Abroad of Major DoD Actions

COMUSAFE Standard Plan 4000, Draft Annex L, Environmental Considerations

Executive Order 12114, Environmental Effects Abroad of Major Federal Actions

FM 3-100.4/mcrp 4-11B, Environmental Considerations in Military Operations

Joint Pub 4-04, Joint Doctrine for Civil Engineering Support

Abbreviations and Acronyms

AOR—Area of Responsibility

BEE—Bio-Environmental Engineer

EBS—Environmental Baseline Survey

EPF—Environmental Planning Function

MOB—Main Operating Base

NAF—Numbered Air Force

T&ES—Threatened and Endangered Species

SAMPLE ENVIRONMENTAL BASELINE SURVEY REPORT COVER PAGE

A2.1. Purpose. Use the template provided by HQ USAFE/A7CV to format the report.

Figure A2.1. Sample Environmental Baseline Survey Report Cover Page.



XXXXXXX AB _____(Country)

DRAFT
Prepared for
HQ USAFE/CEV

Prepared by Deployed EBS Team DATE

A2.2. Table of Contents are formatted as follows:

Figure A2.2. Sample Table of Contents for EBS Report.

TABLE OF CONTENTS

Executive Summary

Purpose of EBS

Survey Methodology

Site History and Current Use

Environmental Conditions

Site Description

Hazardous Material and Hazardous Waste

Storage Tanks

Water Supply

Wastewater Treatment

Solid Waste Storage and Disposal

Electricity

Pesticides

Medical/Biohazard Waste

Natural Resources

Cultural Resources

Adjacent Land Uses

Ranges

Facility Assessment Checklist

Summary of Environmental Conditions

Environmental Baseline Survey Certification

APPENDIXES

A. Site Map

B. Points of Contact

ENVIRONMENTAL BASELINE SURVEY

- **A3.1. Purpose of EBS.** We conducted an Environmental Baseline Survey at __XXXXX __ to assess the existing environmental condition of the site and appraise the potential for environmental contamination at the site. The EBS (1) identifies any potential environmental concerns with the property; (2) documents the environmental condition of the property being used for deployment; (3) records environmental damages (if any); and (4) serves as a record for post-deployment environmental actions. The survey focuses on determining the presence of hazardous substances (which includes both materials and hazardous wastes) and petroleum products and their wastes. The survey also serves to identify releases, past releases or sources for potential releases of any of these substances to the ground, groundwater or surface waters at the site. It will also alert deployed personnel to areas of existing contamination prior to arrival on site.
- **A3.2. Survey Methodology.** In order to determine the potential for existing and future site contamination, we performed a walk-through inspection and conducted personal interviews. If contamination was observed, the survey team noted its location and tried to characterize its type. The inspection and interviews provided a snapshot of the environmental condition of the subject property prior to deployment. Emphasis was placed on visual and physical site inspections of the subject property, the collection of local environmental records (if available) and interviewing current or former employees involved in operations conducted on the site (such as host airport authorities, landowners and other personnel familiar with the site). It is important to note both the condition of and the presence of odors, stains, corrosion, stressed vegetation, and dead or diseased plants or wildlife at locations where hazardous substance storage, release and disposal has occurred or is likely to have occurred. These conditions were (whenever possible) noted on photographs or maps of the site.

(previous beddowns, landfills, hazardous material storage or hazardous/sludge disposal, etc). Try to fin out what types of chemicals/materials were spilled/disposed of on the site.					

A3.4. Environmental Conditions (use environmental condition codes from Table 4.1.3.1, as necessary):

A3.4.1. **Site Description.** Briefly describe site topography, drainage, and natural features (show on site map). Look for any obvious signs of existing environmental contamination (spills, odors, old containers, or open pits, unnatural terrain features that may indicate past disposal practices, etc). Show on site map defined by zones and coordinates.

A3.4.2. Hazardous Materials and Hazardous Waste. Describe hazardous material (such as asbestos, pesticides, toxics, solvents, POL ordnance, etc.) to be used and existing waste storage/ disposal practices. Has contact been made with DRMS-I for hazardous waste disposal? (Note: US-generated hazardous waste shall be disposed by DRMS-I). It is mandatory to coordinate with BEE for Health Risk Assessment.
A3.4.3. Storage Tanks. Identify any aboveground and/or underground storage tanks and locate or the map. Are we using any of the tanks?

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A3.4.4. Water Supply. Identify the source of drinking water (bottled water, local water utility, host nation property wells, reservoirs, etc.) and available capacity. Coordinate with the BEE on potability. Water geology survey may be required to quantify potential plume(s) and movement.
A3.4.5. Wastewater Treatment Systems. Identify the sources (host nation utility system, shower shave, etc), location (on or off base), available capacity and condition of system. Also discuss if there are any temporary treatment measures and potential long-term requirements.
A3.4.6. Solid Waste Storage and Disposal. Identify the sources (dumpsters, trash cans, landfills, etc.) and locations of solid waste disposal areas. Are there contracts in place to collect the waste?
A3.4.7. Electricity. Identify the source (diesel powered generators, utility company, hydro-electric, nuclear, coal, gas, solar, wind, combination, wheeled power, transformers). Identify the age, number and condition of transformers. Note, if possible, whether they are PCB or non-PCB.

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FACILITY ASSESSMENT CHECKLIST

A4.1. Purpose. Use the following checklist to evaluate facilities.

Figure A4.1. Facility Assessment Checklist.

		Date:
		Evaluator:
		Organization:
Facility # :	Current Use:	
Current Ownership:	Past	Use:
Building Size (m ²):	Nun	nber of stories:
General Visual Inspectio		
Are there any signs of the	e following on the property	?? If yes, describe.
Waste Piles/Evidence of	Improper Disposal:	
Evidence of Spills/Staini	ing/Corrosion on Floors, Co	eilings, Walls:
Discolored Soil/Stressed	Vegetation:	
Drums/Drum Storage:		
Environmental Condition	n Code [.]	

SPECIFIC AREAS									
Hazardous Materials									
Past/Present Site use of Hazardous Material:	Yes	□ N	No		Unkn	own T	ype	S	
Past/Present Site storage of Hazardous Material:	☐ Yes	□N	No		Unkn	own T	ype	S	
Container Description (drums, bottl	es, etc	2.):							
Storage Conditions (ground, covere	d, etc.	.):							
Years of storage: Env	vironm	nenta	al co	ondi	ition (code:	_		
Hazardous Waste									
Past/Present Site use of Hazardous Waste:	☐ Ye	es [⊒ N	lo	ŪU	nknow	/n T	ypes	
Past/Present Site storage of Hazardous Waste:	☐ Ye	es [⊒ N	lo	o Unknowr		vn T	ı Types	
☐ 90-Day Storage				If yes: Accumulation		ımulation poin	ıt		
Container Description (drums, bottl	es, etc	c.):							
Storage Conditions (ground, covere	d, etc.	.):							
Voors of storage:	nviro	n 100 01	nto1	001	nditio	n aada			
Years of storage: Environmental condition code:									
Asbestos									
Past/Present Asbestos-Containing Materials:		☐ Yes			□ No		☐ Unknown		
Container Description (drums, bottl	es, etc	c.):							
Storage Conditions (ground, covere	d, etc.	.):							

Years of storage: Environmental condition code:								
Lead-Based Paints								
Past/Present Lead-Base	Past/Present Lead-Based Paint:							
Container Description ((drums	, bottles, et	c.):					
Storage Conditions (gro	ound, c	covered, etc	.):					
Years of storage:	E	nvironment	al Condition	ı coc	le:			
Tanks								
		Content	Size	Cor	ndition_	Status	5	
Aboveground Storage T	Tanks:							
Underground Storage T	anks:							
Oil/Water Separators:								
Environmental condition	on code	e:						
Sewer System								
Effluent/discharged wa	ste des	tination:						
☐ Sanitary Sewer ☐	Sanitary Sewer Industrial Sewer Septic Storm Drain Unknow Tank					☐ Unknown		
Environmental condition	on code	2 :		•				
Other Comments:								

SUMMARY OF ENVIRONMENTAL CONDITIONS

A5.1. Purpose. The following table is used to summarize the environmental condition from the EBS information.

Table A5.1. Summary Environmental of Environmental Condition.

ENVIRONMENTAL AREA	CONDITION CODE	FOLLOW-UP ACTIONS
General Site Evaluation		
Hazardous Waste Disposal Sites		
Hazardous Materials Storage Sites		
Water Supply		
Aboveground/Underground Tanks		
Wastewater treatment		
Solid Waste Storage/Disposal		
Electricity (PCBs in transformers)		
Pesticides		
Medical/Biohazard Waste		
Natural Resources		
Cultural/Historical Resources		
Ranges		
Smoke Stacks/Vents		
Facilities		

A5.2. Environmental Condition Codes

Category 1	No environmental contamination/degradation noted. No storage, release or disposal of hazardous substances or petroleum-based products has occurred.
Category 2	Hazardous substances or petroleum-based products are present or have been present in the past.
Category 3	Contamination and/or degradation possible. Release, disposal and/or migration of hazardous substances or petroleum-based products have occurred. Remedial actions might be required. Coordinate any contamination with the Bio-Environmental Engineer (BEE).
Category 4	Further evaluation required. Visual examination and record review not sufficient to allow condition code determination. Note additional requirements and contact the MOB, Numbered AF, HQ USAFE/A7CV or the BEE.
Category 5	Pre-existing condition.

ENVIRONMENTAL BASELINE SURVEY CERTIFICATION

A6.1. Purpose. Use this sample to certify the EBS.

Figure A6.1. Sample of Baseline Survey Certificate.
The Environmental Baseline Survey (EBS) of the site used only those techniques, procedures, and processes described in this report. In our professional judgment and opinion, the facts and conditions depicted are accurate.
The EBS findings are based upon (1) qualitative and quantitative data or information collected by the EBS Team; (2) interviews conducted during the site visit; and (3) data obtained from files.
The findings of this EBS reflect a review of available information and professional judgment. New information regarding the status of environmental factors on the site could result in a modification to the findings.
Prepared by:
Date
XXXXXXXXXXXXXXXXXXX
XXXXXXXX
Site Commander Acceptance and Approval:
I certify that the property conditions stated in this report are based upon a review of available records, visual conditions, and analysis, as noted, and are true and correct to the best of my knowledge and belief.
Date
Date XXXXXXXXXXXX, Col, USAF
Commander,
- ,

APPENDIX A

(Single Line Base Map with Annotations)

Appendix B

POINT OF CONTACTS ENVIRONMENTAL BASELINE INTERVIEW LIST

I. INTERVIEW INFORMATION	
NAME AND RANK OF PERSON:	
ORGANIZATION:	
PHONE NO:	
2. INTERVIEW INFORMATION	
NAME AND RANK OF PERSON:	
ORGANIZATION:	
PHONE NO:	
3. INTERVIEW INFORMATION	
NAME AND RANK OF PERSON:	
ORGANIZATION:	
PHONE NO:	
4. INTERVIEW INFORMATION	
NAME AND RANK OF PERSON:	
ORGANIZATION:	
PHONE NO:	